

# URBAN FORESTRY

A student who has completed the Job Corps Urban Forestry program is equipped with the skills to contribute to the workplace as a valued employee from day one. Competence in academic and vocational skills is required for graduation. In addition, Job Corps students learn employability and technological skills. To complete his or her Urban Forestry training, a student must master skills in these categories:

## **TREE PRUNER**

### **SAFETY**

Demonstrate safe use of hand, electric and gas power tools; understand first aid and fire prevention procedures; place and climb ladders safely; lift heavy equipment and materials safely; understand the use of appropriate safety gear to be used in performing tasks.

### **CHEMICAL SPILL READINESS**

Understand the proper use of Material Safety Data Sheets (MSDS) and "Right to Know" laws; demonstrate proper procedures to store gasoline and hazardous chemicals; read and follow agency/company policies and procedures manuals.

### **PESTICIDE USE**

Identify insects and the types of insecticides to control them; identify plant diseases and the fungicides used to control them; knowledge of when to use integrated pest management.

### **INSTALL AND MAINTAIN SHRUBS, GROUNDCOVER AND TURFGRASS**

Prune shrubs; identify and locate 10 shrubs or groundcover in the landscape.

### **TREE INSTALLATION AND MAINTENANCE**

Plant trees; identify 20 trees; protect trees from wind using stakes and wire; prune and trim trees; demonstrate the safe use of pruning hand saws, loppers and chain saws; demonstrate the safe use of pruning saddles and ropes; demonstrate the proper procedure for securing a ladder to trim trees; demonstrate the safe use of a trailer-mounted aerial lift; mulch limbs up to 6 inches with a commercial-grade chipper/mulcher; fertilize trees.

### **MEASUREMENT, ESTIMATING AND DESIGN**

Demonstrate the ability to use measuring tools accurately to add, subtract, multiply and divide measurements; demonstrate the ability to perform mathematical operations using whole numbers, fractions and decimals.

### **CONSTRUCTING AND MAINTAINING FACILITIES**

Clean leaves and litter from grounds with hand tools.

### **SPRINKLER AND LOW-VOLTAGE LIGHTING SYSTEMS (WHERE APPROPRIATE)**

Maintain a permanent sprinkler system including cleaning plugged spray components on sprinkler heads, replacing broken risers and sprinkler heads; install an irrigation system including glue PVC pipe and fittings, determine sizes and types of PVC pipe and fittings and sprinkler heads; demonstrate how to set three different automatic sprinkler controllers.

### **PREPARING AND IMPROVING SOIL**

Prepare and maintain a compost pile.

**OPERATING EQUIPMENT**

Drive a pickup truck (with trailer if applicable).

**EQUIPMENT MAINTENANCE**

Lubricate equipment; check and change engine oil; clean and sharpen four different hand tools; adjust idle speed on small engines; replace line-on-line trimmers; mix two-cycle gas and explain what equipment uses the mixture; clean, sharpen and adjust chains on chain saws; check and tighten bolts and screws on power equipment; perform a circle check on equipment before using.

**GREENHOUSE MAINTENANCE**

Explain the basics of cells, seeds, stems, roots, leaves, flowers and fruit; sow annual and perennial seeds; root perennial plants.